


```
#####
#      N8RTA (Technician Class)      R. Michael (Mike) Wardin      #
#      34ID2QW@CMUVM.BITNET          Kewadin Village Apt. #808      #
#      (517) 774-6932                 301 W. Broomfield Rd.        #
#                                     Mt. Pleasant, MI 48858-4542      #
#####
#      43 year old Blind Student at Central Michigan University      #
#      and Devoted Faithful Leader Dog, Johnny-Be-Good (Yellow Labrador)#
#      Majoring in Therapeutic Recreation, Minorng in Office         #
#      Information Stystems, Canoest and avid Spelunker.              #
#####
```

Date: 16 Jan 93 01:19:33 GMT
 From: news-mail-gateway@ucsd.edu
 Subject: * SpaceNews 18-Jan-93 *
 To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0118
 * SpaceNews 18-Jan-93 *

Bulletin ID: \$SPC0118

=====
 SpaceNews
 =====

MONDAY JANUARY 18, 1993

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

* EARTHWINDS NEWS *
 =====

The EARTHWINDS around-the-world helium balloon was launched last week, but got into trouble when the ballast balloon crashed into a mountain. The crew managed to let out the helium and land safely.

[Info via WB1HBU]

* MIR NEWS *

=====

Date: 01/09/93: U6MIR was very active on speech FM on New Year's Eve, exchanging greetings messages. The packet station has been off for much of the time recently. On 20-JAN-93 SOYUZ-TM-15 will take replacement cosmonauts Manakov and Polishchuk to MIR to dock 26-JAN-93. G3IOR has heard nothing as to the likely amateur radio activity of this new crew, but he can only assume the usual cosmonaut training will also include instructions in amateur radio and how to run the radio equipment aboard MIR. The current crew of Solovyov and Avdeyev will return in TM-15 1-FEB-93 1st. On 5-FEB-93 a PROGRESS supply will go to MIR. Another visiting French cosmonaut is due to go up in July '93. If he is half as active as his French predecessor Michel Tognini (F5MIR) we will be in for a treat! MIR QSL's have been long awaited by many. The problem of non-supply has been brought about by the change over in governments, and, believe it or not, there is a desperate shortage of envelopes in Russia! Now UA3CR, RV3DR and LW2DTZ have met to discuss this problem. MIR QSL's should be sent with S.A.S.E., 2 IRC's or one green stamp to: Sergei Samburov, RV3DR, prospect Kosmonavtov. d.36, kw.96, Kaliningrad City, MOSCOW 141070, RUSSIA. For those stations who hear or work MIR and your QTH is South America only, you should send your cards to Gustavo Carpignano LW2DTZ, M.ROSAS 2044, 1828 BENFIELD, Buenos Aires, ARGENTINA.

[Info via ANS]

* FO-20 STATUS *

=====

The latest Mode JA analog transponder schedule from Kazu Sakamoto, JJ1WTK, at FO-20 mission control is as follows:

13-Jan-93 00:35 UTC -to- 14-Jan-93 00:55 UTC
19-Jan-93 23:10 UTC -to- 20-Jan-93 23:45 UTC
26-Jan-93 23:30 UTC -to- 26-Jan-93 23:50 UTC

Mode JD operation will occur continuously Tuesday through Thursday.

* SAREX IN 1993 *

=====

There will be a total of three Shuttle Amateur Radio Experiment (SAREX) missions flying in 1993. Shuttle missions STS-55 (February), STS-56 (March), and STS-57 (April) will all carry Amateur Radio equipment.

Mission STS-55 is tentatively scheduled for launch on 25-Feb-93. tentatively scheduled for launch on February 25. SAREX will operate using configuration C on this mission, which will include FM voice and packet radio using the callsign W5RRR-1.

The following frequencies will be used for Shuttle Amateur Radio Experiment (SAREX) missions during 1993. These frequencies were chosen after much deliberation to Minimize contention between SAREX operations and other 2-meter users. If you have any comments, please direct them to AMSAT via Frank Bauer, KA3HDO (at his callbook address) or to the Educational Activities Department at ARRL Headquarters. We appreciate the cooperation of all amateurs in making the SAREX operations successful.

Most SAREX operations are split-frequency. One frequency is used for "downlink" (the astronauts transmit to Earth stations) and a separate frequency is used for the "uplink" (Earth stations transmit to the astronauts).

SAREX Voice Frequencies

The following frequencies are used for two-way voice communications with the Shuttle astronauts.

Downlink

WOrldwide: 145.55 MHz

Uplinks

Europe: 144.70, 144.75 and 144.80 MHz

Rest of world: 144.91, 144.93, 144.95, 144.97 and 144.99 MHz

Note: The crew will not favor any specific uplink frequency, so your ability to communicate with SAREX will be the "luck of the draw."

SAREX Packet Frequencies

The following frequencies are used for packet communications with the Shuttle.

Downlink: 145.55 MHz

Uplink: 144.49 MHz

For all operations, Earth stations should listen to the downlink frequency and transmit only when the Shuttle is in range and the astronauts are on the air. Listen for any instructions from the astronauts as to specific uplink frequencies in use during the current pass. In addition, listen to the uplink frequencies before transmitting to avoid interference to other users.

Note: The first 1993 mission, STS-55, is scheduled to begin February 25. If the mission slips a few days beyond this date, it will coincide with the Phone weekend of the ARRL International DX Contest

(March 6-7). Should STS-55 coincide with this contest weekend, Shuttle voice uplinks using the 144.91 to 144.99 MHz range will be curtailed DURING THE ENTIRE MISSION. If this is necessary, SAREX will operate voice using the following frequencies:
Modified SAREX Voice Frequencies

Use only if STS-55 mission coincides with ARRL International DX Contest March 6-7, 1992
Downlink
Worldwide: 145.55 MHz

Uplinks
Europe: 144.70, 144.75 and 144.80 Mz
Rest of world: 144.49, and 144.47 MHz

[Info via the ARRL and verified by Frank Bauer, KA3HD0]

* FEEDBACK/INPUT WELCOMED *

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX : 1-908-747-7107
UUCP : ...catfish.ocpt.ccur.com!ka2qhd!kd2bd
PACKET : KD2BD @ NN2Z.NJ.USA.NA
INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org

MAIL : John A. Magliacane, KD2BD
Department of Engineering and Technology
Advanced Technology Center
Brookdale Community College
Lincroft, New Jersey 07738
U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

--

John A. Magliacane	FAX : (908) 747-7107
Engineering & Technology Dept.	AMPR : KD2BD @ NN2Z.NJ.USA.NA
Brookdale Community College	UUCP : ...!rutgers!ka2qhd!kd2bd
Lincroft, NJ 07738 USA	VOICE: (908) 224-2948

Date: 16 Jan 1993 05:31:40 GMT

From: usc!howland.reston.ans.net!zaphod.mps.ohio-state.edu!magnus.acs.ohio-state.edu!usenet.ins.cwru.edu!agate!darkstar.UCSC.EDU!cats.ucsc.edu!
haynes@network.UCSD.EDU
Subject: 6C21 radar pulse tube
To: info-hams@ucsd.edu

I don't have a good enough library or memory to answer your question definitively; but I sorta remember that a 6C21 was a big triode like 304TL or 304TH or something which was characterized for radar pulse service. That is, it's the very same tube; but instead of being tested as an RF amplifier it's tested under conditions of radar pulse service, which means unusually high plate voltage and high plate current with short duty cycle. So the reason somebody would design a linear using the things is that he found some of them surplus that were cheaper than the same bottle with its more familiar type number.

I remember the first time I looked inside the modulator of an SCR-584 radar and saw a couple of volleyball-size tubes in there and said, "wow, those look just like 304TLs (or whatever it was they looked like)" and later learning they were indeed the same thing. Maybe it waws 400T or 450T or something like that.

Might be that the 6C21 had a bigger filament than its amplifier prototype, to help it deliver higher peak currents.

--

haynes@cats.ucsc.edu
haynes@cats.bitnet

"Ya can talk all ya wanna, but it's dif'rent than it was!"
"No it aint! But ya gotta know the territory!"
Meredith Willson: "The Music Man"

Date: 16 Jan 93 01:36:10 GMT
From: olivea!charnel!rat!ucselx!crash!jav@ames.arpa
Subject: FCC General Radiotelephone license in aviation
To: info-hams@ucsd.edu

Kerry Kurasaki (kerry@Ingres.COM) wrote:

:
: Operating aviation radios outside the US requires an operators license,
: usually a FCC Restricted Radio Telephone Operator's Permit (FCC Form 753).
:

I take the above applies when the radios are installed on a US registered, plane, si?

So, if I go to Canada (or any other country, for that matter) and try to get checked out at the local FBO, will I still need the FCC Restricted Radio Telephone Operator's Permit?

Would my ham radio license be an acceptable substitute for the FCC Restricted thingamabob?

Thanks.

--

Javier Henderson, N6VBG (and LU1BUI)
jav@crash.cts.com

Date: Tue, 12 Jan 1993 07:57:54 GMT
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!knuth.mtsu.edu!raider!theporch!jackatak!martinbw@network.UCSD.EDU
Subject: Format of Code Exams?
To: info-hams@ucsd.edu

jahern@geohub.gcn.uoknor.edu (Jud Ahern) writes:

> I'm studying up for my Extra code exam, and got to wondering: Is the
> exam multiple-choice or fill-in-the-blank? The FCC Rule Book says
> the format is up to the VEs, but what is the norm? Does it depend
> on whether the VE group is ARRL or W5YI, etc.? I'd think the
> multiple choice would be MUCH easier, no? Naturally, I plan to be
> at the point where it won't make any difference, but it is helpful
> to know what to expect when going into an exam.
>
> Finally, is 7 correct out of 10 passing or not? I thought it was, but
> my SuperMorse program said I failed when I got 7 out of 10. [Yes,
> I know the program is not the final judge, but I would have guessed
> their criteria would be the same as "real exams".]
>
I recently took the 20 wpm code test at an ARRL VE exam session. All of the tests were multiple choice.

Bruce

--

martinbw@jackatak.raider.net (Bruce Martin)
-----jackatak.raider.net (615) 377-5980 -----

Date: Fri, 15 Jan 93 13:27:21 MST

From: usc!cs.utexas.edu!asuvax!ennews!stat!david@network.UCSD.EDU
Subject: HTs at Disneyland
To: info-hams@ucsd.edu

bparrish@rose.hp.com (Bill Parrish) writes:

> Does anyone know if there is any problem with using handytalkies while
> visiting Disneyland? My XYL and I were thinking of using them to keep
> track of each other when we go down later this year.

> I would hate to have to leave the hts with Disney security for a day
> soooo... has anyone done this recently?

I've never been stopped at Disneyland. Actually there is a 146.94
repeater in Disneyland itself (it is PL -- see ARRL Repeater Directory)
... my understanding is that it is located within the Matterhorn.

david

Internet: david@stat.com	FAX: +1 (602) 451-1165
Bitnet: ATW1H@ASUACAD	FidoNet=> 1:114/15
Amateur Packet ax25: wb7tpy@wb7tpy.az.usa.na	

Date: Sat, 16 Jan 1993 06:17:09 GMT
From: charon.amdahl.com!netcomsv!bongo!julian@uunet.uu.net
Subject: HTs at Disneyland
To: info-hams@ucsd.edu

In article <C0wHy7.DAB@icon.rose.hp.com> bparrish@rose.hp.com (Bill Parrish)
writes:

>Does anyone know if there is any problem with using handytalkies while
>visiting Disneyland? My XYL and I were thinking of using them to keep
>track of each other when we go down later this year.

You shouldn't have a problem. I have used mine there. The
repeater to use is the Disneyland repeater. Input 146.34, output
146.94. PL 1Z (100 Hz). This repeater is located inside the Matterhorn
sham mountain. So if the plainclothes house dicks give you any
grief, tell them you are using the repeater maintained by amateurs who
work for the Rat Company. Tell them it is there for you to enjoy while
at the "happiest place on earth" and you wonder how bad the food could
be at the unhappiest place on earth.

Of course as this is Southern California, the only people you
are likely to speak to are other visitors. People in Southern

California don't like to talk to people they didn't go to school with
or live with.

--

Julian Macassey at bongo. julian@bongo.tele.com Voice: (213) 653-4495
Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

Date: Fri, 15 Jan 1993 22:18:49 GMT
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!knuth.mtsu.edu!
raider!theporch!jackatak!martinbw@network.UCSD.EDU
Subject: License delay confirmed and hits another snag.
To: info-hams@ucsd.edu

Subj: The longeeer wait 93-01-02 12:25:08 EST
From: ThomasP68

It is nice to see George GOT HIS. I am the test date right after George.
Tested Oct 17, 1992.

I also Called:

The FCC is doing such a good job for HAM radio that they promoted one of
the people who work on Ham tickets. Now there is only one person doing
them instead of two. (their words not mine)
Wait this gets better (hi, hi) they only work on them once a week
because now they only have one person doing the job that took two people.
Remember they promoted one.

The ARRL advised me to write my Senator.....

The Guy who started me in Radio and helped me study for the test died
last week with out ever knowing if his student got his ticket.

I got a perfect score on all parts of the test but it's been so long
I wonder If I remember any of It.

I go for a blood pressure check next week to increase the dosage....God I
love this Hobby.

ThomasP68

I also got a card from the AARL/VEC telling me that they will not process
my General Class upgrade until they get a copy of my Technician License.

I took my tests to qualify for a Technician License plus the 13wpm Code

test on 12 Dec 1992. I passed the General Class written on 26 Dec 1992.
I called the ARRL/VEC and they told me that the FCC does not want to have
multiple requests in the pipe at the same time. I plan to take the
Advanced test next week. Since it will be months before I get my Tech
license they will process my General and Advanced (assuming that I pass)
at the same time.

I just wanted to let y'all know,
Bruce

--

martinbw@jackatak.raider.net (Bruce Martin)
-----jackatak.raider.net (615) 377-5980 -----

Date: Fri, 15 Jan 1993 22:21:07 GMT
From: usc!howland.reston.ans.net!bogus.sura.net!darwin.sura.net!knuth.mtsu.edu!
raider!theporch!jackatak!martinbw@network.UCSD.EDU
Subject: License delay confirmed and hits another snag.
To: info-hams@ucsd.edu

The following is a message I got off of America Online:

Subj: The longeeer wait 93-01-02 12:25:08 EST
From: ThomasP68

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Tested Oct 17, 1992.

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at the same time.

I just wanted to let y'all know,
Bruce

--

martinbw@jackatak.raider.net (Bruce Martin)
-----jackatak.raider.net (615) 377-5980 -----

Date: 15 Jan 93 16:44:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: QRP-NE club
To: info-hams@ucsd.edu

>Where do you send for membership to QRP-NE?
For those who would like to join send \$10 to:

Harry McDade W1LMU
194 Winslow Road
Waban, Massachusetts
02168

That will include six newsletters and 4 meetings. All meetings will
be somewhere in New England, with 'summer' scheduled for the Concord, NH
Hamfest in July.
72 de Skip, NT1G

Date: Fri, 15 Jan 1993 23:03:34 GMT
From: usc!howland.reston.ans.net!sol.ctr.columbia.edu!eff!world!mv!chillon!
decvax.dec.com!news.crl.dec.com!halbert@network.UCSD.EDU
Subject: QRP-NE club
To: info-hams@ucsd.edu

In article <9301141619.aa22312@ingate.microsoft.COM>,
a-kevinp@microsoft.COM (Kevin Purcell, Rho) writes:
>I'd appreciate it if someone could provide me with mebership info,
>address and so on.

I've already contacted Kevin by mail. If others are interested,
contact me for QRP-NE info and membership applications. I have an
ASCII version available. I'm listed on the USENET Elmers list as a
QRP-NE contact person.

Annual dues are \$10.00 for new members. Renewals are \$7.00 per year.
Membership includes a subscription to "72", the QRP-NE newsletter.
All membership renewals are due between January 1 and March 1 of each year.

Dan Halbert, KB1RT

Date: 16 Jan 93 03:51:36 GMT
From: usc!sol.ctr.columbia.edu!ira.uka.de!yale.edu!newsserver.jvnc.net!
netnews.upenn.edu!eniach.seas.upenn.edu!jfk@network.UCSD.EDU
Subject: radio wave jamming or scrambling...
To: info-hams@ucsd.edu

In article <1993Jan15.140206.29974@e2big.mko.dec.com> johnson@swings.enet.dec.com
(Dennis M. Johnson) writes:

>
>In article <1993Jan14.203646.1852@IRO.UMontreal.CA>, quennevi@IRO.UMontreal.CA
(Pokey Bangs) writes:
>|>Path: e2big.mko.dec.com!nntpd.lkg.dec.com!news.crl.dec.com!decrcrl!caen!
saimiri.primaie.wisc.edu!ames!olivea!charnel!sifon!CC.UMontreal.CA!
IRO.UMontreal.CA!kovic.IRO.UMontreal.CA!quennevi
>|>From: quennevi@IRO.UMontreal.CA (Pokey Bangs)
>|>Newsgroups: rec.radio.amateur.misc
>|>Subject: radio wave jamming or scrambling...
>|>Message-ID: <1993Jan14.203646.1852@IRO.UMontreal.CA>
>|>Date: Thu, 14 Jan 93 15:36:46 EST
>|>Sender: news@IRO.UMontreal.CA
>|>Distribution: na

```
>|>Organization: Universite de Montreal
>|>Lines: 14
>|>
>|>Hi,
>|> my neighbors are driving me nuts with their radio
>|>(conventionnal am/fm radio) and i'd like to jam
>|>their radio so that they cant hear anything or
>|>just some white noise... is there a method to
>|>jam fm/am radio waves?????
>|>
>|>  help!
>|>
>|>--
>|>=====
>|> "J'ai le vertige quand je vois de petits enfants, non
>|> pas parcequ'ils me donnent de fortes emotions, mais
>|> bien parceque je suis tres grande."
>|>
>
>
>Ayup, go over and talk to them. Preferably in a civil tone that does not
>presuppose they are at fault. If you start an electronic war ( How do
>you effectively jam a 200watt stereo with multi speakers aimed at your
>house?) you will most likely lose.
>
>Dj
```

All,

Has anyone thought to say this:

Jamming radio signals is a violation of law.

At least I think this is the case. In any case, it's illegal for someone without a particular authorization for a band to transmit on it. And for Amateurs, it's our responsibility to help reduce RFI caused by our equipment...

So that would make jamming illegal, no?

Anyways, as stated before, there are probably more civil ways to handle this.

Perhaps a sledge hammer to the offending device;)

73's,
James -KB8DPV

[excuse the extra lines]

--

James F. Kennedy jfk@ee.upenn.edu
University of Pennsylvania jfk@seas.upenn.edu
"What was that I said?"

Date: 15 Jan 93 17:25:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: THE most accurate clock?
To: info-hams@ucsd.edu

Last evening I saw a clock that sets itself to WWVB. It is made in Germany by Junghans (Black Forest watch/clock maker). It is tomb-stone shaped with a 5 1/2" analog face, with a LCD window below for digital time/date/zone information. Automatically corrects for DST. Has styling similar to Braun. Mail-order \$265 (w/shipping) 1-800-926-7000 Brookstone 73 de Skip, NT1G

Date: 16 Jan 93 01:39:39 GMT
From: news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@uunet.uu.net
Subject: What's a Neper?

To: info-hams@ucsd.edu

In article <9301151521.AA01233@yahtzee.cit.cornell.edu>

kfeeney@KLONDIKE.CIT.CORNELL.EDU writes:

>One of the crew on the morning repeater came up with this the other day and
>we can't find a reference for it. He says a Neper = 8.686 db, but we don't
>know why a specific term was given to that ratio, or what industry uses it.
>Can anybody enlighten us?

A Neper is what you get if you get the base e log of a ratio instead of
the base 10 log. It has some minor advantages in calculation, but not
by very much, and in this day of fancy slide rules with advanced scales
it's more cumbersome.

--scott

End of Info-Hams Digest V93 #68
